English / German / French / Italian

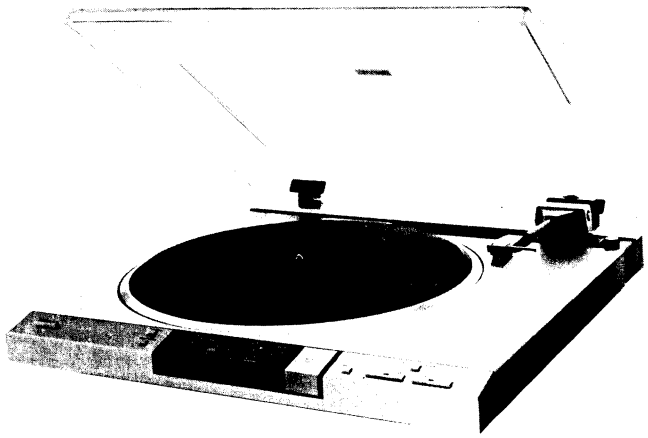
Operating Instructions

STEREO TURNTABLE

PL-L800

HE

ENGLISH



This operation manual is written in four languages. The English is from page 1 to page 16, the German from page 18 to page 31, the French from page 34 to page 48 and the Italian from page 50 to page 63. Please read the pages in your language to learn to use this product correctly.

Diese Bedienungsanleitung ist in vier Sprachen abgefaßt. Der englische Text reicht von Seite 1 bis Seite 16, der deutsche Text von Seite 18 bis Seite 31, der französische Text von Seite 34 bis Seite 48 und der italienische Text von Seite 50 bis Seite 63. Lesen Sie bitte die Seiten in Ihrer Muttersprache aufmerksam durch, um sich mit diesem Produkt gut vertraut zu machen.

Ce manuel d'utilisation a été rédigé en quatre langues. La version anglaise va de la page 1 à la page 16, la version allemande de la page 18 à la page 31, la version française de la page 34 à la page 48 et la version italienne de la page 50 à la page 63. Veuillez lire les instructions dans la langue qui vous intéresse pour apprendre à utiliser correctement ce produit.

Questo manuale d'istruzioni per l'uso è redatto in quattro lingue. L'inglese è da pag. 1 a pag. 16, il tedesco de pag. 18 a pag. 31, il francese da pag. 34 a pag. 48 e l'italiano da pag. 50 a pag. 63. Leggete attentamente le istruzioni nella vostra lingua per poter usare correttamente questo prodotto.

PIONEER®

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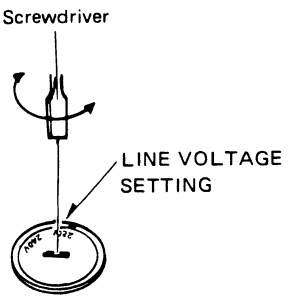
IMPORTANT

To prevent electric shock, do not remove cover. No user serviceable parts inside, refer servicing to qualified service personnel.
Always disconnect all the equipment from the mains supply when disconnecting the signal leads. The power cord should be connected last, make sure that the power switch is off.
Unplug the set from the wall socket when it is not to be used for an extended period of time.

LINE VOLTAGE SELECTOR SWITCH

The line voltage selector switch is located on the top surface of the cabinet of this turntable. Before your turntable is shipped from the factory, the switch is set to the power requirements of the turntable's destination, check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

1. Disconnect the power cord.
2. Provide yourself with a medium-sized screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the arrow on the panel.



TURNTABLE FEATURES

ENGLISH

■ LINEAR TRACKING TONEARM WITH LOW-NOISE DIRECT-DRIVE MOTOR

The linear type tonearm tracks the record grooves in the same tangential way in which the record was originally cut, providing faithful sound reproduction. An electronically controlled linear servo motor directly moves the tonearm to constantly maintain its perpendicular tracking angle.

■ UNIVERSAL HEADSHELL CONNECTOR MAKES CARTRIDGE CHANGES EASY

The tonearm has a universal headshell connector to let you use any standard cartridge on the market.

■ LOW MASS STRAIGHT-LINE POLYMER-GRAPHITE TONEARM ENHANCES TRACKING CHARACTERISTICS

The tonearm pipe is made of polymer-graphite to privide both high rigidity and outstanding damping characteristics. The headshell uses a composite carbon fiber material to achieve an extremely low mass. Because the entire tonearm mass is centered in one point, tracking stability is excellent in both planes.

■ CORELESS MOTOR WITH SH ROTOR PROVIDES SMOOTH, STABLE DRIVING FORCE

The coreless motor eliminates cogging, a major cause of speed deviations, and the SH rotor bearing construction lowers the center of gravity in the rotating section to assure highly stable operation.

■ QUARTZ PLL SERVO CONTROL FOR ROTATIONAL PRECISION

A PLL system with a highly accurate and stable quartz oscillator maintains a consistent rotational precision regardless of tracking forces, groove modulations or arm-type record cleaners.

■ AUTOMATIC LEAD IN

Automatically places the tonearm stylus in the lead in groove of the record when PLAYBACK START/STOP switch is depressed.

■ AUTOMATIC REPEAT

When this switch is depressed, the record is automatically played over again until the REPEAT PLAYBACK switch is depressed again.

■ AUTOMATIC RETURN/AUTOMATIC CUT

At the end of record play, the tonearm is automatically returned to the arm rest. Depressing the PLAYBACK START/STOP switch during playback automatically returns the tonearm to the arm rest at that point.

■ MANUAL/REMOTE TONEARM OPERATION

The linear tracking tonearm may be operated manually or by remote control switch for offset tonearm turntable convenience.

■ QUICK PLAY/QUICK STOP

Fast turntable platter start up and stop.

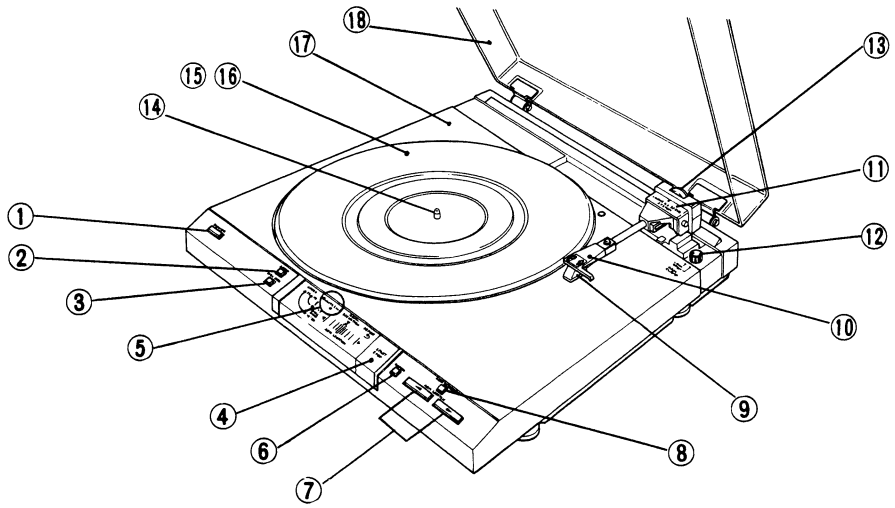
■ ARM ELEVATION MECHANISM

Operating ARM ELEVATION SWITCH gently lifts the tonearm from the record groove for temporarily stopping playback, or for starting playback in the middle of a record.

■ HIGH-OUTPUT MOVING-COIL (MC) CARTRIDGE

Amplifier or preamp may be used in the moving-magnet (MM) cartridge position. No special MC transformer needed.

PANEL FACILITIES



① POWER SWITCH (POWER)

Depress this switch to turn power ON and OFF.
Switch depressed – Power ON
Switch out – Power OFF
When power is turned ON, the SPEED 33, DISC SIZE 12" 30, and ARM ELEVATION lamp is illuminated.

② SPEED SELECTOR SWITCH (SPEED)/LAMP (▲33 ▲ 45)

Depress this switch until the lamp corresponding to speed of the record to be played is illuminated.
When power is turned ON- the "33" lamp is illuminated.
"33" lamp illuminated – 33 1/3 rpm LP record playback
"45" lamp illuminated – 45 rpm EP record playback

③ RECORD SIZE SELECTOR SWITCH (DISC SIZE)/LAMP (●7" 17 ●12" 30)

Depress this switch until the lamp corresponding to the record size is illuminated. When power is turned ON, the "12" 30" lamp is illumianted.
"12" 30" lamp illuminated – 30 cm (12") LP record playback
"7" 17" lamp illuminated –17 cm (7") EP record playback

④ PLAYBACK START/STOP SWITCH (START/STOP)

This switch is depressed to start automatic playback or to stop playback in the middle of a record. (See page 9 for detailed instructions.)

⑤ QUARTZ LOCK INDICATOR (QUARTZ LOCK)

This lamp illuminates indicating accurate speed of 33 1/3 or 45 rpm.

⑥ REPEAT PLAYBACK SWITCH (REPEAT)/LAMP (⮌)

Depressing this switch will illuminate the "REPEAT" lamp and repeat playback of the present record. (See page 10 for detailed instructions.)

⑦ TONEARM POSITIONING SWITCH (ARM LOCATION)/LAMP (◄ · ►)

Depress this switch to move the tonearm to the left or right in the manual playback mode. (See page 11 for detailed instructions.)
Depressing the ◄ switch moves the tonearm to the left and causes the ◄ lamp to blink.
Depressing the ► switch moves the tonearm to the right and causes the ► lamp to blink.
The tonearm movement speed is variable in two steps depending on the pressure applied to the switch.
Depress firmly for fast speeds, lightly for slow speeds.

⑧ ARM ELEVATION SWITCH (ARM-ELEVATION)/LAMP (▼)

Depress this switch to raise or lower the tonearm in the manual playback mode. (See page 11 for detailed instructions.) When power switch is turned ON, this lamp is illuminated.
Lamp illuminated (▼) – tonearm raises
Lamp extinguished – tonearm lowers

⑨ CARTRIDGE (PC-4MC)

⑩ HEADSHELL

⑪ TONEARM

⑫ ARM CLAMP KNOB (ARM CLAMP)

Turn this knob to lock the tonearm into the arm clamp. (See page 9 for detailed instructions.)
LOCK position – tonearm locked
OPEN position – tonearm lock released. (Keep lock in this position for normal operations.)

⑬ STYLUS TRACKING FORCE ADJUSTMENT WEIGHT

Rotate this weight to adjust vertical tracking force. (See page 6~7 for detailed instructions.)

⑭ CENTER SHAFT

⑮ PLATTER

⑯ RUBBER PLATTER MAT

⑰ CABINET

⑱ DUST COVER

SETTING UP THE TURNTABLE

(Complete STEP 1 through STEP 4 before operating turntable.)

ENGLISH

STEP 1 ASSEMBLY

(Do not plug in the power cord until all steps are complete.)

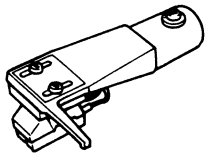
1. Check for Accessories

The following accessory parts are enclosed in a molded styrofoam board.

EP adapter

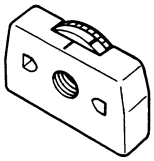
Used for playing 45 rpm records.

Headshell



Attach to the tonearm.

Stylus tracking force adjustment weight

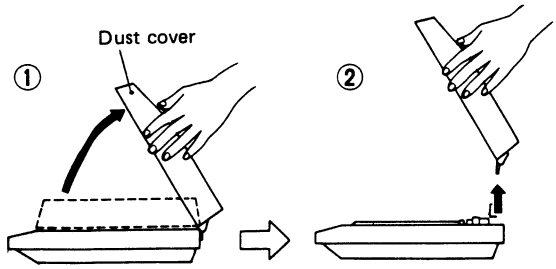


Headshell adapter (0.5 grams)

Use this headshell adapter when using cartridges other than the one supplied with this turntable (cartridges heavier than 5 grams and/or with a stylus height of more than 17 mm). Refer to page 14 for details.

2. Remove the Dust Cover

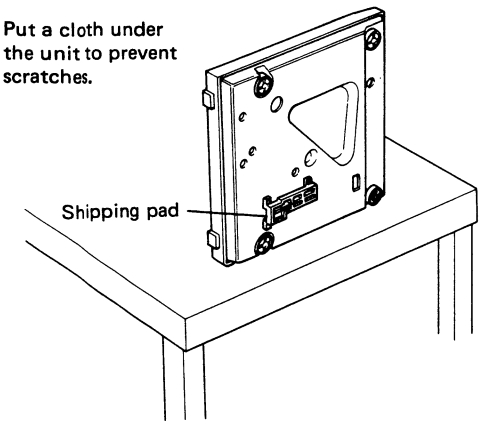
1. Open the dust cover to its fully open position.
2. Holding both sides of the cover, lift off the cabinet.



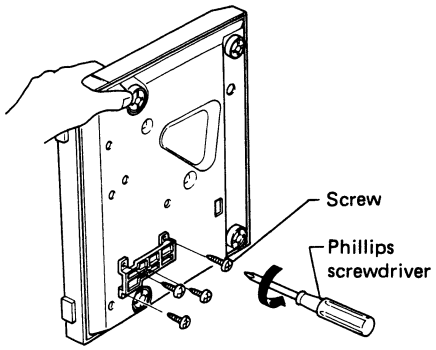
NOTE:
Do not place the dust cover where it will get scratched.

3. Removing the tonearm shipping pad

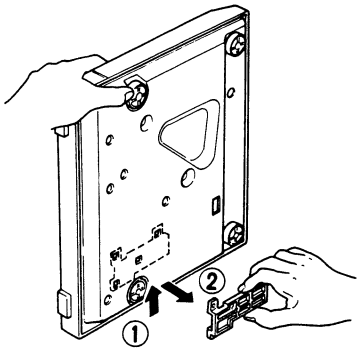
1. Position the unit as shown in the diagram.



2. Steady the unit with one hand to prevent it from falling, and using a medium-sized Phillips screwdriver with the other hand, remove the four screws.



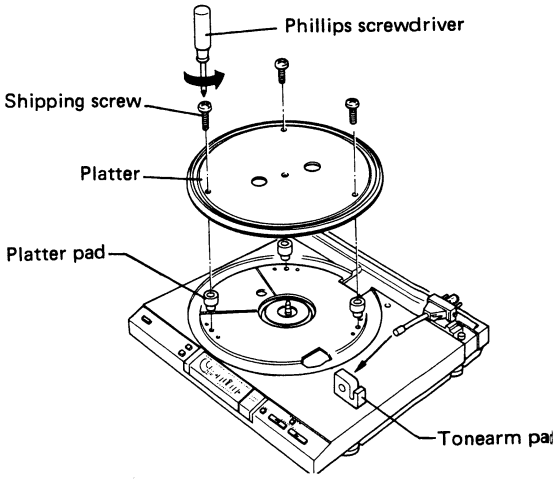
3. Slide the tonearm shipping pad out from the side ① , then lift it out ②



4. Set the unit back down carefully.

4. Remove the Shipping screws and Tonearm Pad

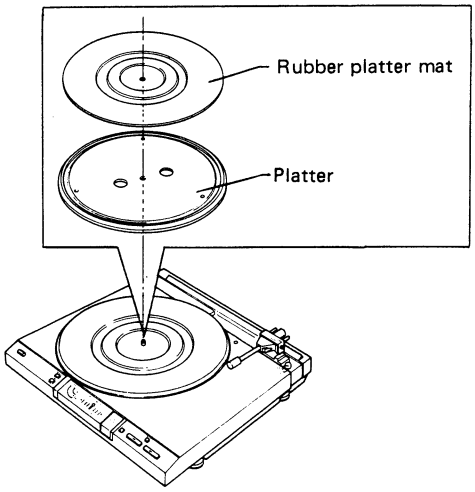
1. Using a medium-sized Phillips screwdriver, remove the three screws securing the platter to the deck (turn screws counter-clockwise) and take off the platter and platter pads.
2. Remove the tonearm pad by pulling it in the direction of the arrow.



NOTE:
Turntable will not operate unless screws are removed. Keep the screws and pads for future use whenever the turntable is shipped or moved any distance.

5. Install the Platter and Rubber Platter Mat

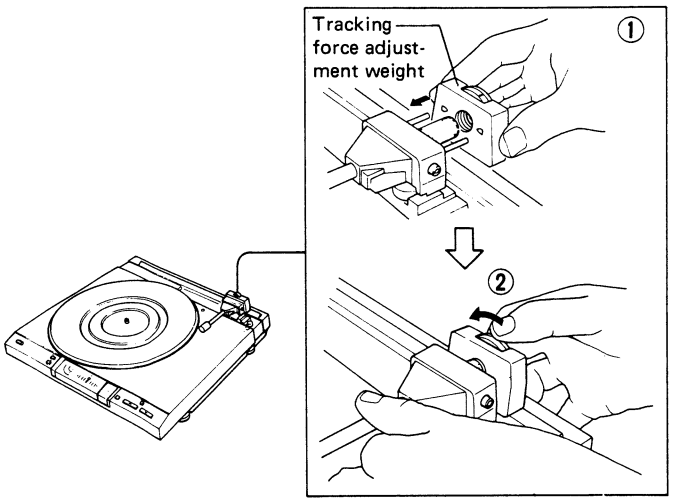
1. Place the platter over the turntable center shaft.
2. Place the rubber platter mat on the platter.



NOTE:
Do not bump the turntable center shaft, cabinet, or tonearm during platter installation.

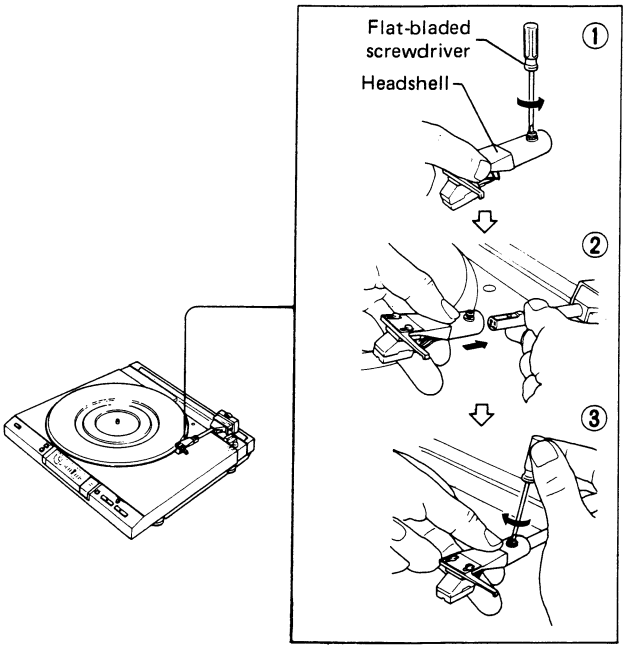
6. Mounting the stylus Tracking Force Adjustment Weight

1. Position the weight as shown in the diagram and slide it onto the tonearm weight shaft.
2. Turn the weight portion (serrated ring) in the direction of the arrow completely to its stop to prevent the weight from falling off the shaft.



7. Install the headshell

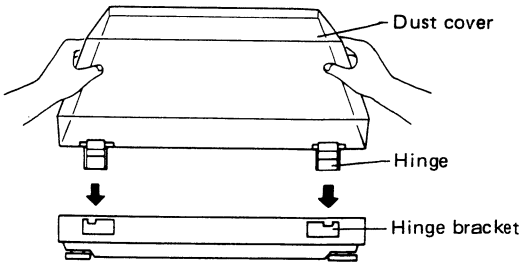
1. Loosen the screw using a small flat-bladed screwdriver.
2. Slide the headshell onto the tonearm. Make sure the headshell is in as far as it will go.
3. Secure the locking screw.



8. Remove the plastic strap securing the tonearm.

9. Install the Dust Cover

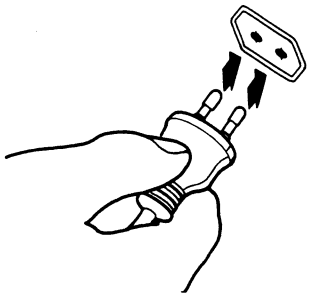
1. Holding the dust cover by both sides, tip it back and insert its hinges into the cabinet hinge brackets.
2. Make certain the cover will close correctly.



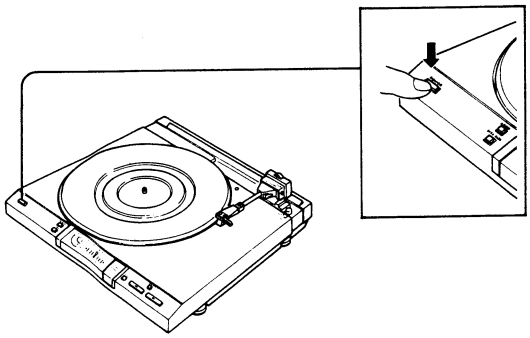
STEP 2 ADJUSTING STYLUS TRACKING FORCE

(Make this adjustment with turntable on a level surface.)

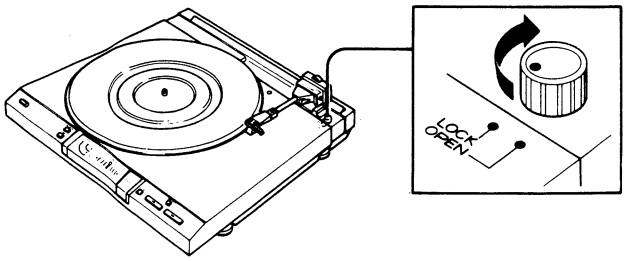
1. Plug the power cord into a wall socket



2. Turn the power switch ON

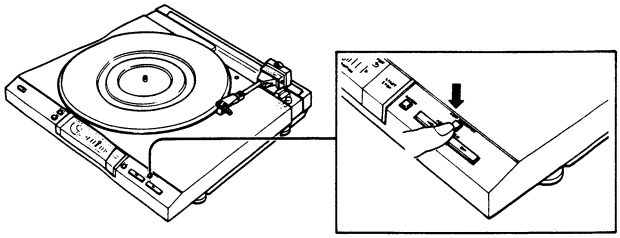


3. Turn the arm clamp knob to the LOCK position.



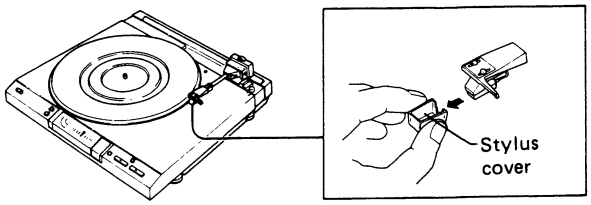
4. Depress the arm elevation switch

The ARM-ELEVATION lamp ▼ should extinguish.



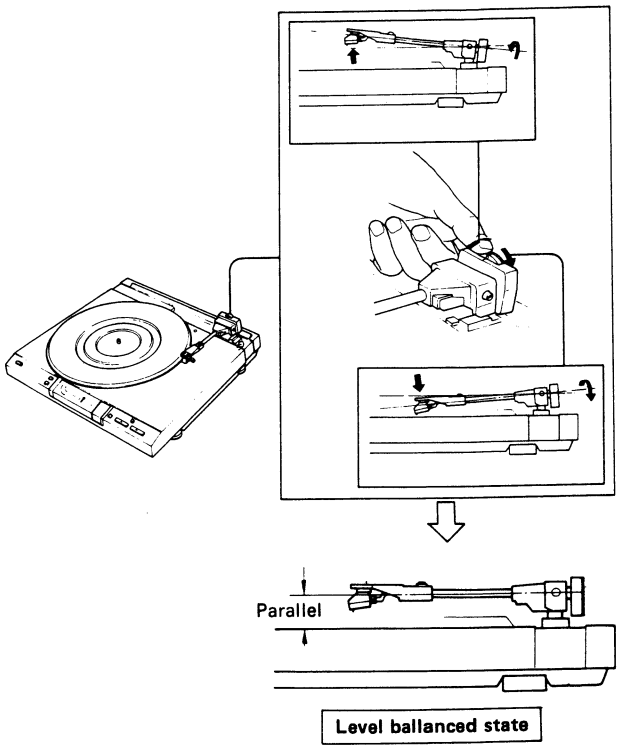
5. Remove the Stylus Cover

Grasp the stylus cover with your fingers and gently pull straight out.



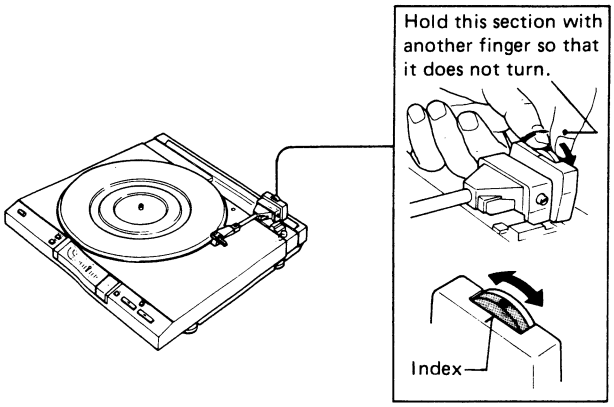
6. Balancing the Tonearm

Turn the weight portion (serrated ring) of the stylus tracking force adjustment weight in the direction of the arrows until the tonearm will remain in a balanced position over the turntable with no hand support.



7. Zero (0) the Stylus Tracking Force Graduation Ring

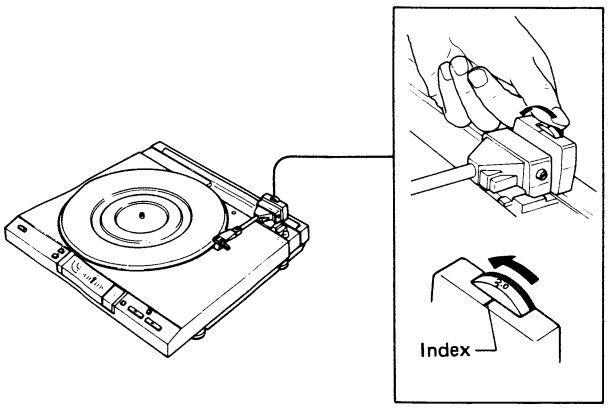
Turn the graduated ring portion (darkened portion in illustration) of the stylus tracking force adjustment weight in either direction until the 0 lines up with the index.



NOTE:
Support the weight portion (serrated ring) with your other hand so that it will not turn with the ring. If the weight portion turns, go back and repeat sub-step 6. over again.

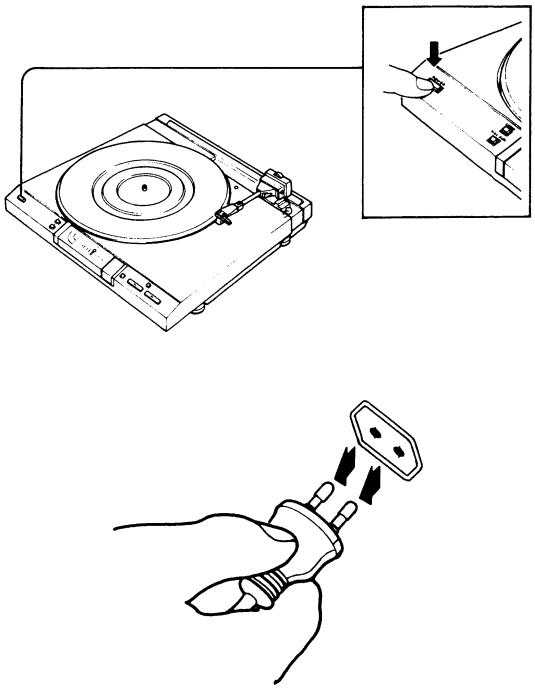
8. Set Stylus Tracking Force

Turn the weight portion (darkened portion in illustration) in the direction of the arrow (the graduated ring should also turn) until the "2" graduation is lined up with the index.



Each graduation on the ring represents 0.25g.
One revolution of the weight equals 3g.

9. Turn the power switch OFF, and unplug the power cord



Precautions in adjusting stylus tracking force

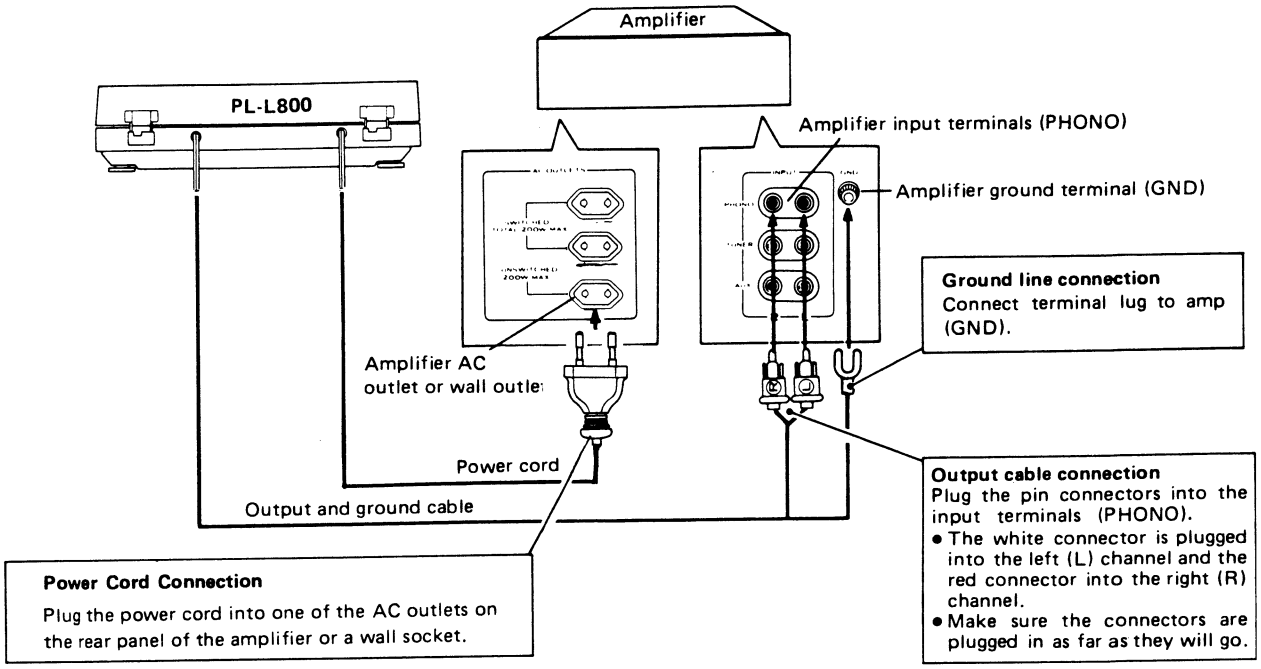
- **Always adjust stylus tracking force to the recommended value for the cartridge you are using. (The recommended range for the cartridge furnished with this unit is 1.7~2.3 grams with an ideal force of 2.0 grams.)**

Improper tracking force can result in the following:

Tracking force too high	–	Distortion. Cartridge body rides too low, bumping record surface.
Tracking force too low	–	Distortion. Skipping.

ENGLISH

STEP 3 CONNECTING TO AMPLIFIER


Amplifier
PL-L800
Amplifier input terminals (PHONO)
Amplifier ground terminal (GND)
Ground line connection
Connect terminal lug to amp (GND).
Amplifier AC outlet or wall outlet
Power cord
Output and ground cable
Output cable connection
Plug the pin connectors into the input terminals (PHONO).
• The white connector is plugged into the left (L) channel and the red connector into the right (R) channel.
• Make sure the connectors are plugged in as far as they will go.
Power Cord Connection
Plug the power cord into one of the AC outlets on the rear panel of the amplifier or a wall socket.

STEP 4 TURNTABLE LOCATION

Proper location for the turntable is more important than for any other stereo component. The following rules must be observed for good system operation.

- Make sure that location is level and flat.
- Locate where vibrations from the floor or outside sources will not be transmitted to turntable.
- Do not place where it will pick up vibrations from the speaker system. (Do not place in front of, or directly over speaker system.)
- Place where controls are easy to operate, and where the record and stylus is easily visible.
- Place near the amplifier so relatively short connection cables can be used.
- Do not place in direct sunlight or near a stove or furnace.
- Do not locate turntable in a dusty or dirty or excessively humid environment.

Connection and placement precautions

- **Faulty connection and bad location problems.**
  - Connecting the unit wrong will result in no sound output. Also, if the output cable connectors are not fully inserted into the terminal sockets, or the ground wire is not connected, hum from the speaker will result.
  - The turntable in a tilted position will result in distortion and tonearm skating. Vibrations transmitted to the turntable will cause the stylus to skip or waver and can also produce howling. (Loud, low frequency static from speaker system.)
- **Connect the turntable to the amplifier MM input terminal (PHONO MM).**
  The cartridge furnished with this unit is an MC (moving coil) type, however, it is a high-output type and must be connected to the MM (moving magnet) terminal.
- **Make sure all connection cables have slack.**
  After connection, check each cable for slack. If they are stretched taut, this can cut the cable leading to howling.
- **Terminate the cartridge with 50kΩ load resistance.**
  If the amplifier has a cartridge load resistnace selector switch, set it to 50kΩ.
- **If another cartridge is used. . . .**
  Follow the instructions furnished with the cartirdge and amplifier.

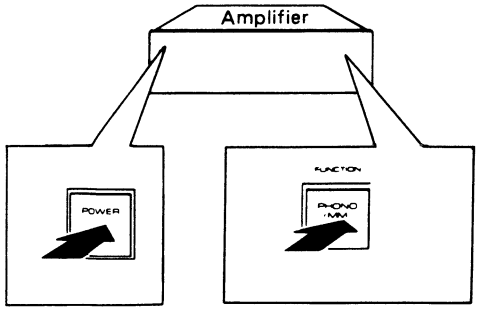
Are the shipping screws removed?

Is stylus tracking force properly adjusted?

OPERATING INSTRUCTIONS

PREPARATIONS

■ **Place the amplifier in the record play mode**

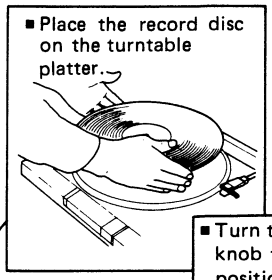


■ Turn the power ON.

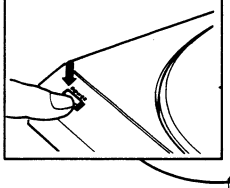
■ Set the selector switch to PHONO.

■ **Set up the turntable**

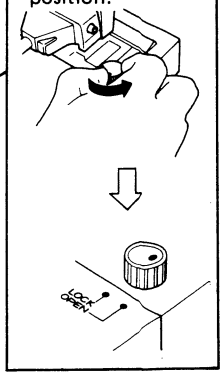
■ Place the record disc on the turntable platter.

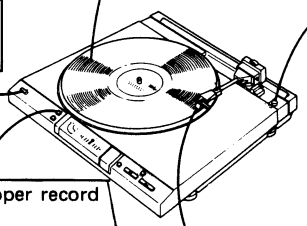


■ Depress the POWER switch (ON).

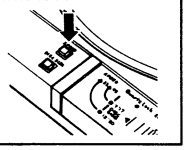


■ Turn the arm clamp knob to the open position.

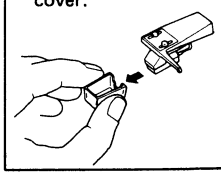




■ Set the proper record speed.
Depress the switch until the lamp indicating the proper speed (33 or 45) is illuminated.



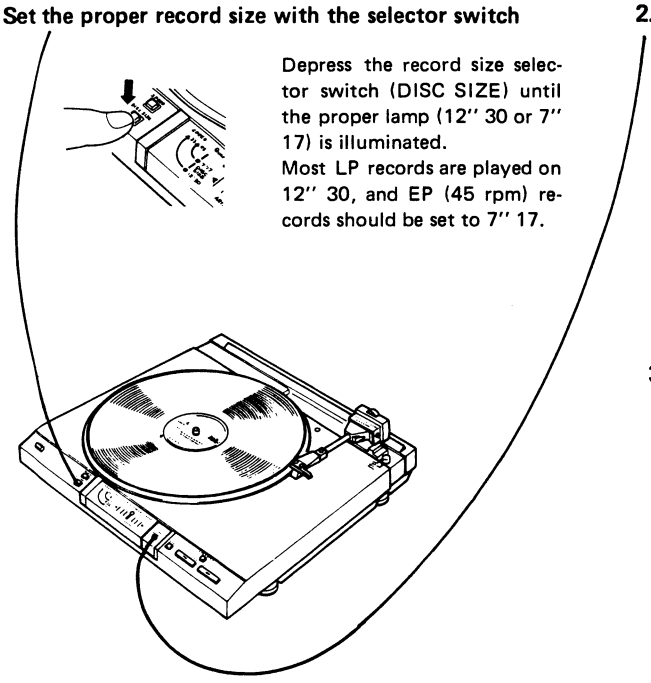
■ Remove the stylus cover.



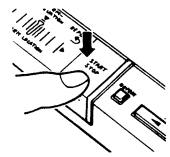
AUTOMATIC PLAYBACK (AUTO PLAY)

1. Set the proper record size with the selector switch

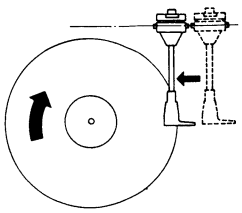
Depress the record size selector switch (DISC SIZE) until the proper lamp (12" 30 or 7" 17) is illuminated.
Most LP records are played on 12" 30, and EP (45 rpm) records should be set to 7" 17.



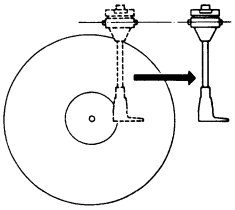
2. Starting playback by depressing the playback start/stop switch



The platter starts rotation, and the tonearm is automatically moved to the record disc, starting playback.

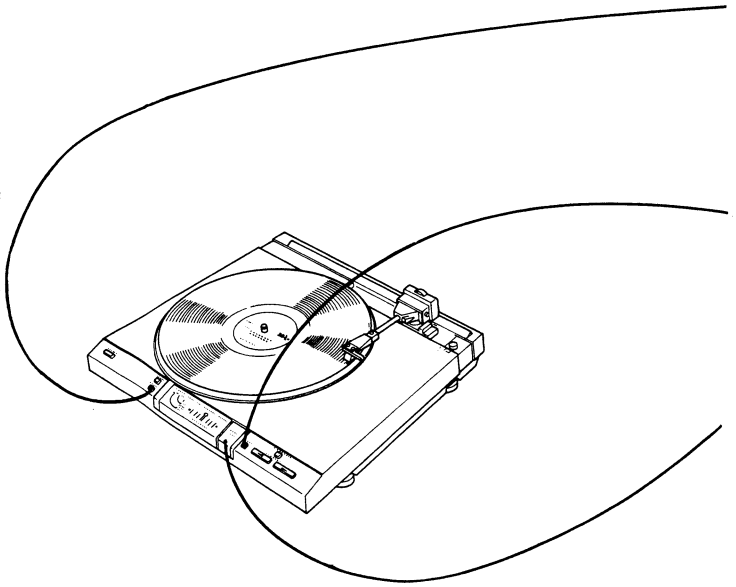


3. Stopping playback



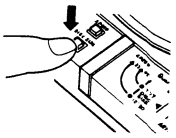
The tonearm is automatically returned to the arm clamp position, and the platter is stopped.

REPEAT PLAYBACK (REPEAT PLAY)



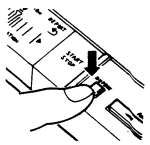
1. Set the record disc size by depressing the record size selector switch

Procedure same as for auto play.



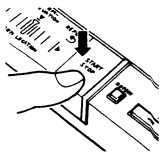
2. Depress the playback repeat switch (REPEAT)

The repeat lamp ⮌ should illuminate.



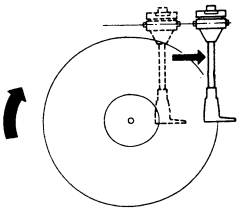
3. Start playback by depressing the playback start/stop switch

This will start automatic playback.



4. At end of record, playback will be repeated

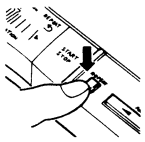
At the end of record playback, the tonearm will automatically return to the lead-in groove at the beginning of the record and play the record over.



This operation will be repeated over until repeat playback is stopped.

■ **Stopping repeat playback**

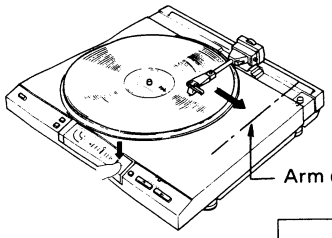
Depressing the playback repeat switch again (extinguishing lamp) will cause the tonearm to automatically return to the arm rest, stopping platter rotation.



STOPPING THE TURNTABLE DURING PLAYBACK

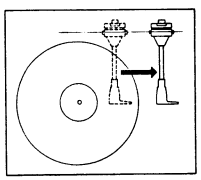
Two methods may be used.

■ **Depress the playback start/stop switch**



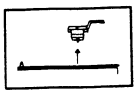
The tonearm will automatically return to the arm clamp position and stop platter rotation.

Arm clamp position



■ **Depress the arm elevation switch to raise the tonearm (temporary stop)**

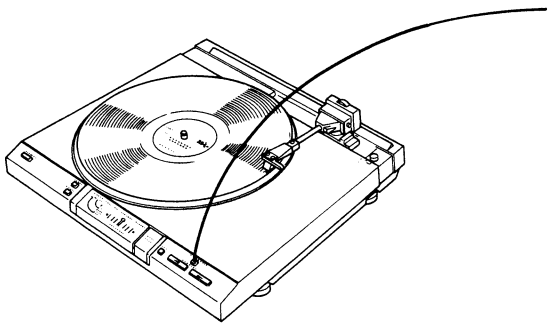
The arm-elevation lamp ▼ should illuminate.
The tonearm moves up off the record disc stopping playback (platter continues rotation). Returning the tonearm to the arm clamp position by hand will stop platter rotation.



MANUAL PLAYBACK (MANUAL PLAY)

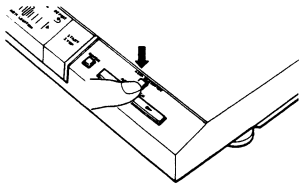
Used in the following instances:

- When starting playback in the middle of a record.
- When a non-standard size record disc is played.



1. Place the arm-elevation switch to the up position

The arm-elevation lamp ▼ should illuminate.

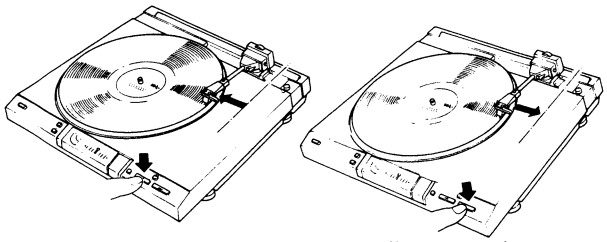


2. Move the tonearm to the record disc

- **Remote control operations**

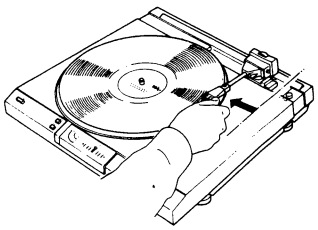
  Depress the tonearm positioning switch (◄ , ►) and move the tonearm until the stylus is positioned over the lead in groove of the song you want to play.

  Depressing the ◄ switch moves tonearm to the left, and depressing the ► switch moves it to the right. Depress firmly for fast movement, gently for slow movement.

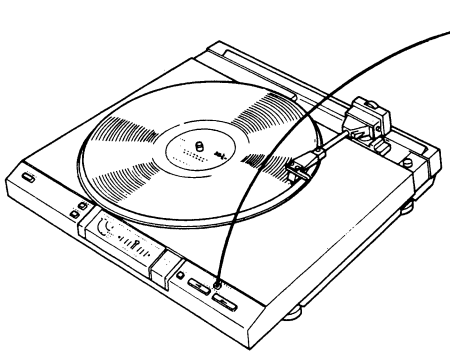


- **Manual operations**

  Take the headshell between your thumb and forefinger and move the tonearm to where the stylus is positioned over the lead in groove of the song you want to play.

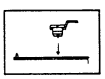


- The platter will start rotation.
- The stylus will still be off the record and no sounds will be reproduced.



3. Start playback. (Depress the arm-elevation switch)

The lamp should extinguish, and the tonearm lower onto the record starting playback.

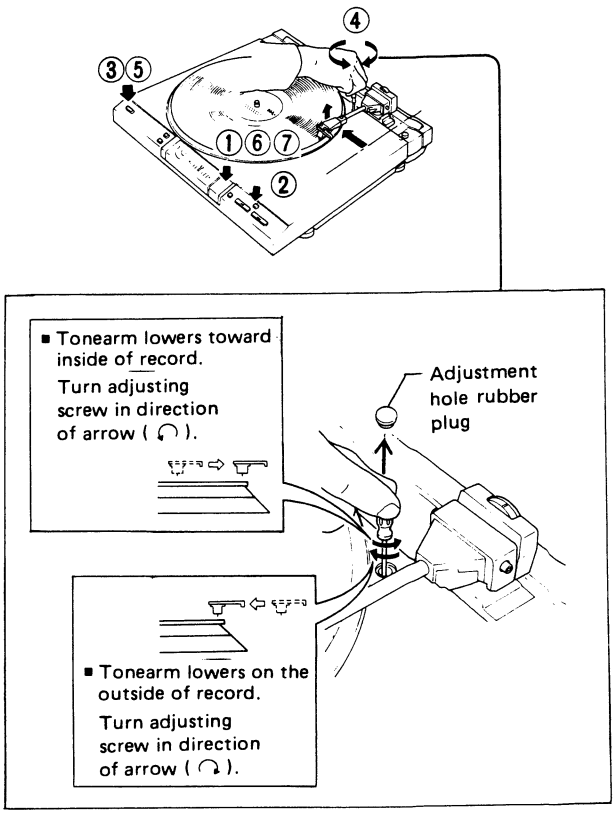


(When the record ends, the tonearm will automatically return to the arm rest.)

ADJUSTING THE TONEARM LOWERING POSITION

When the tonearm doesn't lower in the right position during automatic playback, adjust according to the following procedures. (Be careful not to damage the record disc with the stylus while making this adjustment.)

1. Place a 30cm record on the platter.
2. Depress the playback start/stop switch and start automatic playback. Note the direction and amount the lower position is off. (①)
3. Depress the arm elevation switch and raise the tonearm (arm-elevation lamp ▼ illuminated) (②)
4. Depress the power switch to turn power off. (③)
5. After the platter stops turning, remove the rubber plug from the adjustment screw hole.
6. Using a small flat-bladed screwdriver, turn the adjustment screw to correct the offset noted in item 2. above. (④)
   - When the stylus lowers to the outside of the record, turn the screw clockwise (↷).
   - When the stylus lowers too far to the inside of the record, turn the screw counterclockwise (↶).
7. Turn power on again(⑤), depress the playback start/stop switch and return the tonearm to the arm clamp. (⑥)
8. Depress the playback start/stop switch and check the adjustment (⑦). If the lowering position is still off, repeat steps 3. through 8. above.
9. Replace the rubber plug after adjustment has been completed.


④
③⑤
①⑥⑦
②
▪ Tonearm lowers toward inside of record.
Turn adjusting screw in direction of arrow (↶).
Adjustment hole rubber plug
▪ Tonearm lowers on the outside of record.
Turn adjusting screw in direction of arrow (↷).

Playback precautions

■ **Tonearm doesn't lower in the right position on the record.**

During automatic playback, the tonearm doesn't travel far enough onto the record before lowering, or travels too far and starts playback in the middle of a song. In cases like this, adjust tonearm lowering position referring to adjusting the tonearm lowering position on page 12.

■ **Tonearm will not automatically return.**

When a non-standard size record is played, sometimes the tonearm will not return when playback is completed, or will return too soon. When the tonearm will not return automatically, depress the playback start/stop switch to return it.

■ **Attempting automatic operation with the tonearm locked**

If the playback START/STOP switch is inadvertently depressed while the tonearm is locked in place, the following events will occur bringing the unit automatically to the playback completion status.

- The arm location lamp ◄ will illuminate for approximately 7 seconds.
- Both arm location lamps (◄ and ►) will blink for approximately 10 seconds.
  (When blinking stops, the unit will be in the playback completion status.)

■ **Open and close the dust cover carefully during playback.**

During playback, avoid opening and closing the dust cover as much as possible. When it must be opened and closed, avoid shaking the turntable or slamming the cover.

■ **Clean the record disc and stylus before and after use. (Refer to page 14.)**

- Dirt and dust on the record or stylus will result in sound distortion and skipping.
- Clean the stylus with a soft brush and clean the record disc with a good quality commercial record cleaner.

■ **Place one record at a time on the platter.**

Placing more than one record at a time on the platter will change the vertical tracking angle of the stylus, resulting in sound distortion.

■ **Maintain stylus tracking force within recommended range.**

- The range for the cartridge accompanying this unit is 1.7~2.3 grams. Maintain stylus tracking force within this range. (For instructions on stylus tracking force adjustment, refer to page 6~7.)
- When playing back a record recorded at an extremely high recording level (all other records seem to be ok, but this one will not track properly (skips), or when using the turntable at low ambient temperature, adjust stylus tracking force to its highest recommended value (2.3g for the furnished cartridge).

■ **Do not vibrate or handle the turntable unnecessarily during playback.**

This can cause skipping and result in the stylus damaging the record. Be particularly careful not to touch the rotating platter or the tonearm when it is moving in the automatic mode. This can damage the operating mechanism.

■ **Do not forcefully move the tonearm by hand.**

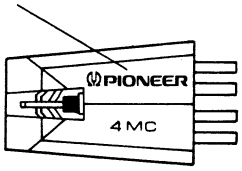
The design of the turntable limits tonearm travel to the turntable center shaft. Forcing the tonearm past the center shaft will result in damage to the internal mechanism.

MAINTENANCE

STYLUS REPLACEMENT

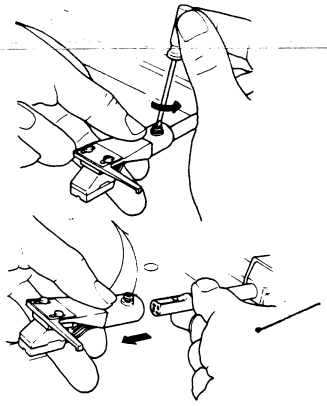
- **The life of the furnished cartridge is from 800 to 1000 hours. (Equivalent to 1~2 hours daily use for 1~2 years.)**
  Using a worn-out or damaged stylus will result in sound distortion or damage to the record disc. To be safe, replace the stylus before it is worn-out.
- **A replacement stylus may be purchased at the Pioneer dealer where you bought this turntable. Specify a Pioneer PN-4MC replacement stylus.**
  The cartridge furnished with this turntable was developed by Pioneer especially for use with this unit, and only the PN-4MC may be used with this cartridge.
- **Always use Pioneer Genuine Parts for stylus replacement**
  Using other replacement stili may result in degraded performance or damage to the unit voiding the Pioneer guarantee.

Pioneer Genuine Parts are marked with the Pioneer trade name.



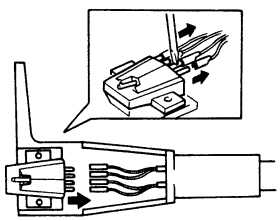
Stylus replacement procedure

1. **Return the tonearm to the arm clamp and turn the arm clamp knob to the LOCK position.**
2. **Remove the headshell from the tonearm.**
   Using a small, flat bladed screwdriver, loosen the retaining screw in the direction of the arrow and remove the headshell.

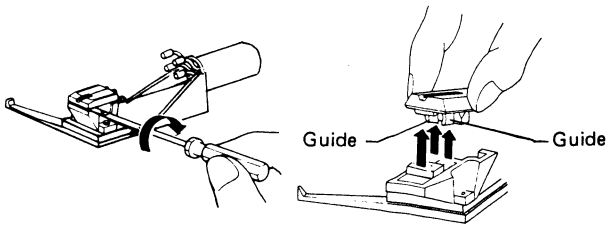


When removing the headshell, support the tonearm with your free hand.

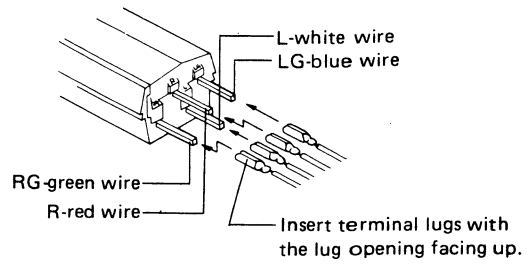
3. **Disconnect the lead wires from the cartridge.**
   Remove the terminal lugs with a small screwdriver or tweezers.



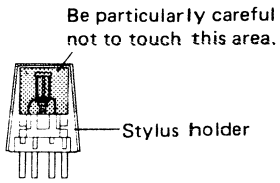
4. **Remove the stylus from the cartridge.**
   Insert a small screwdriver into cartridge's slot and rotate as shown in the figure. (The stylus holder will rise slightly.)
   Hold the stylus holder and pull the stylus gently in the direction indicated by the arrow.



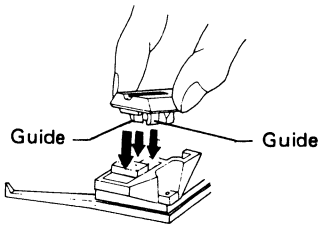
5. **Connect the lead wires to the new stylus holder.**



NOTE:
When replacing the stylus holder, be careful not to touch the internal coil or wiring.



6. **Attaching the new stylus holder to the cartridge.**
   Lining the stylus holder up with the guide channel, press the holder into the cartridge with your fingers until a click is heard.



7. **Attach the headshell to the tonearm.**
   Following the reverse procedure of step 2. above, remount the headshell to the tonearm. Make sure the headshell is fully inserted to the shoulder on the tonearm before securing the screw.

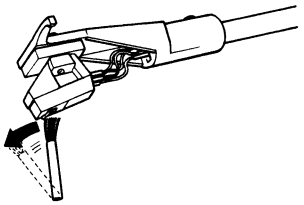
TURNTABLE CARE

Cabinet and dust cover care

- **Dusting and cleaning.**
  Wipe the unit gently with a polishing cloth or dry, soft cloth.
- **Heavily soiled areas.**
  Dip a soft cloth in a solution containing a non-detergent soap diluted to a 1/5 or 1/6 ratio. Wring the cloth out thoroughly and wipe the unit down. Finish by polishing with a soft, dry cloth.
- **No chemicals or furniture wax.**
  Do not use furniture wax, commercial cleaners, thinner, or benzine to clean the unit. These will remove or discolor the surface finish.
- **No insecticides.**
  Inspecticides will discolor and stain the surface finish.

Stylus care

- **Use a soft brush.**
  Clean the stylus stroking from the rear of the holder toward the front. Cleaning the stylus with your finger tip can destroy the stylus.



- **Stylus too dirty to be cleaned with a brush.**
  The stylus may be cleaned using a commercial stylus cleaner. However, take care not to get any of the liquid on the plastic parts of the cartridge. Some cleaners can dissolve plastic.

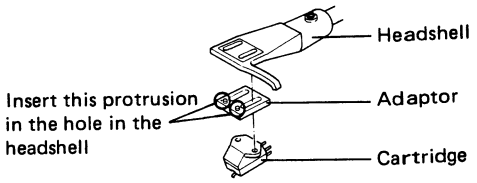
CARTRIDGE REPLACEMENT

- The standard cartridge (furnished with the unit) may be replaced with any cartridge with a weight of 3 to 8 grams.
- The lead wire polarity of the furnished headshell is noted in the following table. Make certain connection is correct.

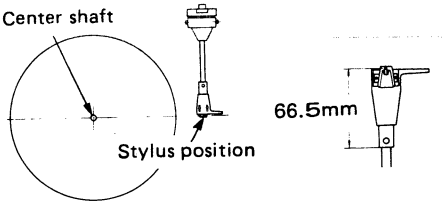
  red – right channel (R)
  white – left channel (L)
  blue – left channel ground (LG)
  green – right channel ground (RG)

- One of the two accessory headshell adapters may be necessary in some cases to compensate for different cartridge weights and sizes. One adapter is already attached to the headshell; the other is packed separately. If required, the appropriate adapter should be attached between the headshell and the cartridge. Refer to the following chart to determine if one of the adapters should be used.

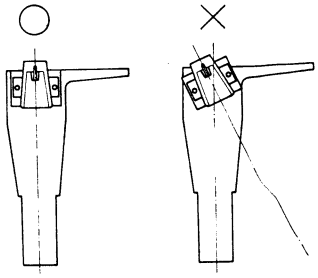
Cartridge weight	Height (from attachment surface to stylus tip)	Required adapter	Representative cartridges
over 5g	under 17mm	0.5 gram adapter (lighter one)	Shure V-15/III Shure V-15/IV Denon DL-103S Denon DL-303
under 5g	under 17mm	2 gram adapter (heavier one)	Pioneer PC-70MC Pioneer PC-50MC
over 5g	over 17mm	none	Pioneer PC-1000II Shure M91E Stanton 681E Ortofon MC-20 Audio Technica AT-12SA



- Adjust the position of the headshell cartridge to where the stylus will travel over the exact center of the center shaft. (This is a simple adjustment. Refer to the diagram below.)



- Attach the cartridge to the headshell with the front faces parallel to each other. (If the cartridge is not straight, it may cause the tonearm to operate improperly and/or create distortion.)



- When the cartridge is replaced, refer to page 6 and 7 and adjust stylus tracking force.

TROUBLESHOOTING

Sometimes, an operational fault can be mistaken for a malfunction or failure. Check the following points and see if you can find the symptoms of the trouble below before you get in touch with the serviceman. If you cannot locate the symptoms, contact your nearest Pioneer dealer.

Symptom	Cause	Remedy
Turntable platter won't turn	1. Power cord unplugged 2. When the AC OUTLET (SWITCHED) on the amplifier is used	1. Plug power cord into wall outlet 2. Turn the amplifier power switch ON
No sound	1. Output cable connection incomplete 2. Cartridge lead wire connection incomplete (when cartridge or stylus is replaced) 3. Pin connectors or amplifier input terminals dirty	1. Firmly plug the pin connector into the amplifier PHONO terminal 2. Make connection properly (refer to page 14) 3. Clean
Distortion, skipping, noise, scratching	1. Stylus tracking force incorrect 2. Stylus dirty or worn 3. Record disc warped or scratched 4. Pin connectors or amplifier input terminals dirty 5. Cartridge installed at angle 6. Record disc dusty or dirty	1. Set tracking force correctly (refer to page 6~7) 2. Clean stylus or replace it 3. Discard record 4. Clean 5. Install correctly (refer to page 14) 6. Clean record
Howling (Occurs when the sound volume is increased during playback resulting in a loud howling noise)	1. Speaker vibration transmitted through the floor and picked up by the cartridge 2. Sounds from the speaker directly transmitted to cartridge	1. Insulate the speaker from the floor (with a rug or pad) Place the turntable on a sturdy stand 2. Change turntable location
Sound too fast or too slow	Speed selector switch at wrong speed	Set to correct speed for record
Hum (humming noise from speaker system)	1. Output cable or ground wire connection incomplete 2. System affected by magnetic flux leakage from amplifier transformer (or another source)	1. Make a good connection to the amplifier PHONO terminal or GND terminal 2. Change the position of the amp or turntable
Will not move to lead-in groove (tonearm won't move in automatic playback mode)	Tonearm clamp locked	Release clamp
Tonearm sets down in wrong position (auto play)	1. Tonearm lowering position adjustment off 2. Record size selector switch on wrong size	1. Adjust referring to page 12. 2. Select correct size for record being played

If the turntable is brought into a warm room from previously cold surroundings, or if the room temperature rises suddenly, moisture will form on the operating sections and the turntable will not be able to display its performance to the full.

In a situation like this, leave the turntable in its new environment for about an hour, or try and increase the room temperature gradually, before operation.

SPECIFICATIONS

ENGLISH

Motor and Turntable

Drive System . . . . . Direct-drive
Motor . . . . . Quartz PLL-Hall motor
Turntable Platter . 320 mm diam. aluminum alloy die-cast
Speeds . . . . . 33-1/3 and 45rpm
Wow and Flutter . . . . . Less than *0.012% (WRMS)
0.025% (WRMS)
0.035% (DIN)

Values marked with an "*" designate the wow and flutter for motor, and do not include the cartridge or tonearm load.

Signal-to-Noise Ratio . . . . . More than 78dB (DIN-B)
(with Pioneer cartridge model PC-4MC)

Rotational Characteristics

Build-up Time . . . . . Within 120° rotation at 33-1/3rpm
Speed Deviation . . . . . Less than 0.002%
Speed Drift . . . . . Less than 0.00008%/h at 33-1/3rpm
Less than 0.00003%/degree temp. change at 33-1/3rpm

Tonearm

Type . . . . . Linear Motor Direct-drive
Static-balance type, Linear-tracking arm
Effective Arm Length 162mm
Overhang 0mm
Usable Cartridge Weight . . . . . 3g (min.) to 8g (max.)

Subfunctions

Auto lead-in
Auto-return
Auto cut
Quick repeat
Quick play
Quick stop
Remote Tonearm Operation
Stylus pressure direct-readout counterweight
Cueing device
Free stop hinges

Miscellaneous

Power Requirements . . . . . AC 220/240V~switchable, 50, 60Hz
Power Consumption 22W
Dimensions . . . . . 420(W) x 120(H) x427(D)mm
16-9/16(W) x 4-3/4(H) x 16-13/16(D)in.
Weight 8.3kg/18lb 5oz

Accessories

EP Adapter 1
Headshell adapter 1
Operating instructions 1

PC-4MC Specifications

Type . . . . . Moving coil type
Stylus . . . . . 0.3 x 0.7 mil diamond (PN-4MC)
Output Voltage 1.5mV
(1kHz, 50mm/s peak velocity · LAT)
Tracking Force . . . . . 1.7g to 2.3g (Proper 2g)
Frequency Response . . . . . 10 to 35.000Hz
Recommended Load 50kΩ
Weight 3.1g

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.